Database :

UniProt_02:*

1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		8			•	
Result		Query				
No.	Score	Match	Length	DB	ID	Description
						
1	1985	100.0	389	2	059096	O59096 pyrococcus
2	1872	94.3	389	1	AAT_PYRAB	Q9v0l2 pyrococcus
3	1784	89.9	389	2	Q8U1F5	Q8u1f5 pyrococcus
4	1058	53.3	390	2	Q9UZ63	Q9uz63 pyrococcus
5	1019	51.3	390	2	Q8U3E6	Q8u3e6 pyrococcus
6	1014	51.1	391	1	AAT_PYRHO	O58489 pyrococcus
7	1013	51.0	388	2	Q8RCV4	Q8rcv4 thermoanaer
8	973.5	49.0	388	2	Q8R7H1	Q8r7h1 thermoanaer
9	935.5	47.1	396	2	Q6HC04	Q6hc04 bacillus th
10	935.5	47.1	396	2	Q81K72	Q81k72 bacillus an
11	935.5	47.1	396	2	AAT34262	Aat34262 bacillus
12	934.5	47.1	396	2	Q816F8	Q816f8 bacillus ce
13	931.5	46.9	396	2	Q72YI1	Q72yil bacillus ce
14	931.5	46.9	396	2	AAS43941	Aas43941 bacillus
15	897.5	45.2	393	2	Q9K7L1	Q9k7l1 bacillus ha

Database :

PIR 79:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		윰				
Result		Query				•
No.	Score	Match	Length	DB	ID	Description
1	1985	100.0	389	2	E71009	probable aromatic-
2	1872	94.3	389	2	B75122	probable aromatic-
3	1058	53.3	390	2	G75037	probable aromatic-
4	1014	51.1	391	2	E71125	probable aromatic-
5	897.5	45.2	393	2	F84068	aspartate aminotra
6	866	43.6	374	2	G69119	probable aspartate
7	845.5	42.6	390	2	F69452	probable aspartate
8	804.5	40.5	379	2	A69516	probable aspartate
9	795	40.1	394	2	A70469	aspartate transami
10	789.5	39.8	386	2	H96945	PLP-dependent amin
11	782.5	39.4	388	2	AE2412	aspartate aminotra
12	766	38.6	375	2	A64300	aspartate transami

Database : A_Geneseq_23Sep04:* 1: geneseqp1980s:* 2: geneseqp1990s:* 3: geneseqp2000s:* 4: geneseqp2001s:* 5: geneseqp2002s:* 6: geneseqp2003as:* 7: geneseqp2003bs:* 8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		₹				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	389	100.0	389	3	AAY77535	Aay77535 Pyrococcu
2	389	100.0	389	3	AAY85619	Aay85619 Thermosta
3	389	100.0	389	5	ABG31066	Abg31066 Aromatic
4	49	12.6	389	4	AAB96229	Aab96229 Putative
5	35	9.0	392	8	ADN47893	Adn47893 Thermococ
6	15	3.9	390	4	AAB96556	Aab96556 Putative
7	14	3.6	392	8	ADN47966	Adn47966 Thermococ
8	12	3.1	369	7	ADE12735	Adel2735 L. rhamno
9	12	3.1	391	5	AAE20095	Aae20095 Lactobaci
10	12	3.1	418	6	ADA33238	Ada33238 Acinetoba

Database : Issued_Patents_AA:* 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:* 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:* 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:* 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:* 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:* 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		8				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	795	40.1	394	2	US-08-646-590B-40	Sequence 40, Appl
2	795	40.1	394	3	US-09-412-184-40	Sequence 40, Appl
3	785	39.5	398	2	US-08-599-171A-29	Sequence 29, Appl
4	785	39.5	398	2	US-08-646-590B-29	Sequence 29, Appl
5	785	39.5	398	3	US-09-069-226-29	Sequence 29, Appl
6	785	39.5	398	3	US-09-412-184-29	Sequence 29, Appl
7	704	35.5	389	4	US-09-134-000C-3706	Sequence 3706, Ap
8	687	34.6	418	4	US-09-328-352-4525	Sequence 4525, Ap
9	672	33.9	399	4	US-09-134-000C-6422	Sequence 6422, Ap
10	665	33.5	390	4	US-09-107-532A-5233	Sequence 5233, Ap
11	629.5	31.7	411	4	US-09-107-532A-4942	Sequence 4942, Ap
12	619	31.2	385	3	US-09-413-814-7	Sequence 7, Appli
13	617.5	31.1	395	4	US-09-583-110-3337	Sequence 3337, Ap
14	597.5	30.1	390	4	US-09-724-623-67	Sequence 67, Appl
15	589	29.7	410	4	US-09-252-991A-33110	Sequence 33110, A
16	587	29.6	395	3	US-09-134-001C-3723	Sequence 3723, Ap
17	569.5	28.7	369	4	US-09-724-623-66	Sequence 66. Appl

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Published Applications AA:*
Database :
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                    /cgn2 6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
                2:
                    /cgn2 6/ptodata/1/pubpaa/US06 NEW PUB.pep:*
                3:
                4:
                    /cgn2 6/ptodata/1/pubpaa/US06 PUBCOMB.pep:*
                    /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
                5:
                    /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
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                    /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
                9:
                     /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
                10:
                     /cgn2 6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
                11:
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                14:
                15:
                     /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
                16:
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                18:
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                     /cgn2 6/ptodata/1/pubpaa/US60 NEW PUB.pep:*
                19:
                20:
                     /cgn2 6/ptodata/1/pubpaa/US60 PUBCOMB.pep:*
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ø.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB	ID	Description
1	389	100.0	389	9	US-09-967-645-1	Sequence 1, Appli
2	389	100.0	389	14	US-10-369-493-1298	Sequence 1298, Ap
3	389	100.0	389	14	US-10-369-493-20364	Sequence 20364, A
4	389	100.0	389	16	US-10-810-440-1	Sequence 1, Appli
5	49	12.6	389	14	US-10-369-493-21601	Sequence 21601, A
6	17	4.4	312	15	US-10-424-599-249656	Sequence 249656,

Database : Issued_Patents_AA:* 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:* 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:* 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:* 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:* 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:* 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		₹				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	12	3.1	369	4	US-09-724-623-66	Sequence 66, Appl
2	12	3.1	418	4	US-09-328-352-4525	Sequence 4525, Ap
3	10	2.6	394	2	US-08-646-590B-40	Sequence 40, Appl
4	10	2.6	394	3	US-09-412-184-40	Sequence 40, Appl
5	9	2.3	216	3	US-09-134-001C-3618	Sequence 3618, Ap
6	8	2.1	295	4	US-09-583-110-4171	Sequence 4171, Ap
7	8	2.1	303	4	US-09-252-991A-27331	Sequence 27331, A
8	8	2.1	398	2	US-08-599-171A-29	Sequence 29, Appl
9	8	2.1	398	2	US-08-646-590B-29	Sequence 29, Appl
10	8	2.1	398	3	US-09-069-226-29	Sequence 29, Appl
11	8	2.1	398	3	US-09-412-184-29	Sequence 29, Appl
12	8	2.1	440	4	US-09-252-991A-22913	Sequence 22913, A
13	8	2.1	515	4	US-09-134-000C-4651	Sequence 4651, Ap
14	7	1.8	33	1	US-08-781-020-15	Sequence 15. Appl

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US-10-369-493-1298
; Sequence 1298, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
  APPLICANT: Cao, Yongwei
  APPLICANT: Hinkle, Gregory J.
  APPLICANT: Slater, Steven C.
  APPLICANT: Goldman, Barry S.
  APPLICANT: Chen, Xianfeng
  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION
OF
  TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
  FILE REFERENCE: 38-10(52052)B
  CURRENT APPLICATION NUMBER: US/10/369,493
  CURRENT FILING DATE: 2003-02-28
  PRIOR APPLICATION NUMBER: US 60/360,039
  PRIOR FILING DATE: (2002-02-21)
  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1298
   LENGTH: 389
   TYPE: PRT
   ORGANISM: Pyrococcus horikoshii
US-10-369-493-1298
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                     100.0%; Pred. No. 0;
 Best Local Similarity
 Matches 389; Conservative
                           0; Mismatches
                                          0;
                                             Indels
                                                        Gaps
                                                                0;
Qy
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           Db
          1 MALSDRLELVSASEIRKLFDIAAGMKDVISLGIGEPDFDTPOHIKEYAKEALDKGLTHYG 60
         61 PNIGLLELREAIAEKLKKONGIEADPKTEIMVLLGANOAFLMGLSAFLKDGEEVLIPTPA 120
Qу
            Db
         61 PNIGLLELREAIAEKLKKONGIEADPKTEIMVLLGANOAFLMGLSAFLKDGEEVLIPTPA 120
Qу
        121 FVSYAPAVILAGGKPVEVPTYEEDEFRLNVDELKKYVTDKTRALIINSPCNPTGAVLTKK 180
           Db
        121 FVSYAPAVILAGGKPVEVPTYEEDEFRLNVDELKKYVTDKTRALIINSPCNPTGAVLTKK 180
Qу
        181 DLEEIADFVVEHDLIVISDEVYEHFIYDDARHYSIASLDGMFERTITVNGFSKTFAMTGW 240
           Db
        181 DLEEIADFVVEHDLIVISDEVYEHFIYDDARHYSIASLDGMFERTITVNGFSKTFAMTGW 240
        241 RLGFVAAPSWIIERMVKFQMYNATCPVTFIQYAAAKALKDERSWKAVEEMRKEYDRRRKL 300
Qy
           241 RLGFVAAPSWIIERMVKFQMYNATCPVTFIQYAAAKALKDERSWKAVEEMRKEYDRRRKL 300
Db
        301 VWKRLNEMGLPTVKPKGAFYIFPRIRDTGLTSKKFSELMLKEARVAVVPGSAFGKAGEGY 360
Qу
           Db
        301 VWKRLNEMGLPTVKPKGAFYIFPRIRDTGLTSKKFSELMLKEARVAVVPGSAFGKAGEGY 360
        361 VRISYATAYEKLEEAMDRMERVLKERKLV 389
Qу
            Db
        361 VRISYATAYEKLEEAMDRMERVLKERKLV 389
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RESULT 2

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RESULT 3
US-10-369-493-20364
; Sequence 20364, Application US/10369493
; Publication No. US20030233675A1
 GENERAL INFORMATION:
  APPLICANT: Cao, Yongwei
  APPLICANT: Hinkle, Gregory J.
  APPLICANT: Slater, Steven C.
  APPLICANT: Goldman, Barry S.
  APPLICANT: Chen, Xianfeng
  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION
OF
  TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
  FILE REFERENCE: 38-10 (52052) B
  CURRENT APPLICATION NUMBER: US/10/369,493
  CURRENT FILING DATE: 2003-02-28
  PRIOR APPLICATION NUMBER: US 60/360,039
  PRIOR FILING DATE: 2002-02-21
  NUMBER OF SEQ ID NOS: 47374
 SEQ ID NO 20364
   LENGTH: 389
   TYPE: PRT
   ORGANISM: Pyrococcus horikoshii
US-10-369-493-20364
 Query Match
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 Best Local Similarity
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                                                      0;
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Oy
            Db
          1 MALSDRLELVSASEIRKLFDIAAGMKDVISLGIGEPDFDTPOHIKEYAKEALDKGLTHYG 60
         61 PNIGLLELREAIAEKLKKONGIEADPKTEIMVLLGANOAFLMGLSAFLKDGEEVLIPTPA 120
Qу
            Db
         61 PNIGLLELREAIAEKLKKONGIEADPKTEIMVLLGANOAFLMGLSAFLKDGEEVLIPTPA 120
        121 FVSYAPAVILAGGKPVEVPTYEEDEFRLNVDELKKYVTDKTRALIINSPCNPTGAVLTKK 180
Qу
            121 FVSYAPAVILAGGKPVEVPTYEEDEFRLNVDELKKYVTDKTRALIINSPCNPTGAVLTKK 180
Db
        181 DLEEIADFVVEHDLIVISDEVYEHFIYDDARHYSIASLDGMFERTITVNGFSKTFAMTGW 240
Qу
           Db
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Qу
        241 RLGFVAAPSWIIERMVKFQMYNATCPVTFIQYAAAKALKDERSWKAVEEMRKEYDRRRKL 300
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Db
Qу
        301 VWKRLNEMGLPTVKPKGAFYIFPRIRDTGLTSKKFSELMLKEARVAVVPGSAFGKAGEGY 360
            Dh
        301 VWKRLNEMGLPTVKPKGAFYIFPRIRDTGLTSKKFSELMLKEARVAVVPGSAFGKAGEGY 360
       361 VRISYATAYEKLEEAMDRMERVLKERKLV 389
Qy
           Db
        361 VRISYATAYEKLEEAMDRMERVLKERKLV 389
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